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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/877,006	09/877,006 06/11/2001		Takeshi Mio	0054-0235P	1713
2292	7590	06/16/2006		EXAMINER	
BIRCH ST	EWART	KOLASCH & BIF	FLETCHER	FLETCHER, JAMES A	
PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER	
T.EDEO CITO	, v.	220.0 0717		2621	

DATE MAILED: 06/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)							
	Office Antique Comments	09/877,006	MIO ET AL.							
	Office Action Summary	Examiner	Art Unit							
		James A. Fletcher	2621							
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(\$) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).										
Status										
1)🖂	Responsive to communication(s) filed on <u>07 A</u>	pril 2006.								
	This action is FINAL . 2b) This action is non-final.									
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is									
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.									
Disposition of Claims										
4)⊠	4)⊠ Claim(s) <u>3-13</u> is/are pending in the application.									
4a) Of the above claim(s) is/are withdrawn from consideration.										
5) Claim(s) is/are allowed.										
	6)⊠ Claim(s) <u>3-13</u> is/are rejected.									
	7) Claim(s) is/are objected to.									
8)∐	8) Claim(s) are subject to restriction and/or election requirement.									
Applicati	on Papers									
9) The specification is objected to by the Examiner.										
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.										
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).										
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).										
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.										
Priority u	ınder 35 U.S.C. § 119									
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:										
	1. Certified copies of the priority documents have been received.									
2. Certified copies of the priority documents have been received in Application No										
3. Copies of the certified copies of the priority documents have been received in this National Stage										
application from the International Bureau (PCT Rule 17.2(a)).										
* See the attached detailed Office action for a list of the certified copies not received.										
Attachment	t(s)									
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)										
	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te) 452\						
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) · No(s)/Mail Date <u>3/7/06</u> .	5) Notice of Informal Pa	лет Аррисайол (РТС	J- 102)						

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DETAILED ACTION

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New Art Unit

1. Please include the new Art Unit 2621 in the caption or heading of any written or facsimile communication submitted after this Office Action because the examiner, who was assigned to Art Unit 2616, will be assigned to new Art Unit 2621. Your cooperation in this matter will assist in the timely processing of the submission and is appreciated by the Office.

Response to Arguments

2. Applicant's arguments with respect to claims 3-13 have been considered but are moot in view of the new ground(s) of rejection. The Examiner notes that the changes to amended claim 3 has changed the meets and bounds of the claim as originally analyzed and discussed by the Examiner in the previous office action.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 3-4, 6-7, and 10-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Sakazaki et al (5,648,960).

Regarding claims 3 and 11, Sakazaki et al disclose a program recording and reproducing apparatus and method to which a stream of a plurality of time-division-multiplexed signals are inputted, comprising:

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 extracting unit and step for extracting program packets of the predetermined coded program signals from the streaming signals (Col 4, lines 36-39 "The data extractor 2 extracts desired data from the different types of data contained within the input data packet stream and outputs the extracted data to a data combiner 4");

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- discarding other program signal packets in the streaming signal (Col 4, lines 44-46 "The deleted packet detector 3 extracts the number of the nonextracted data packets that are in contiguous sequence between extracted data packets");
- recording the respective program packets and a discarded packet count
 corresponding to the number of packets discarded between two consecutively
 recorded program packets (Col 4, lines 51-52 "The data combiner 4 combines
 the extracted data and the information relating to the number of deleted
 packets" and Col 5, lines 11-12 "The output of the data combiner 4 is supplied
 to a recording circuit 5");
- reading the coded program signals out of the recording unit (Col 5, lines 23-26 "The reproducing circuit 7...outputs the data to a data separator 8");
- generating null packets corresponding to the discarded packet count (Col 5, lines 26-30 "The data separator 8 separates each of the extracted data packets from the reproduced data and after separating the information relating to the number of deleted packets in contiguous sequence, outputs this information to a dummy packet inserter 9")and

converting the coded program signals read out after inserting null packets
corresponding to the discarded packet count between the two consecutive
program packets (Col 5, lines 54-57 "The dummy packet inserter 9 inserts a
number of dummy packets, based on the number of the deleted packets in
contiguous sequence, into the sequence of extracted data packets from the
data separator 8").

Regarding claim 4, Sakazaki et al disclose a program recording/reproducing apparatus comprising a unit that detects a speed of the streaming signals based on the number of packets contained per unit time when receiving the streaming signals;

wherein the speed detecting unit outputs the program signals at the speed detected (CoI 3, lines 40-46 "The extracted data and the information of the number of deleted packets in contiguous sequence is separated after being reproduced by the reproducing circuit. The output circuit outputs the extracted data while inserting dummy packets therebetween based on the information of the number of data packets in contiguous sequence. Thus, the resulting output data train contains extracted data at the same time intervals that such data was contained within the input data train").

Regarding claims 6 and 12, Sakazaki et al disclose a program recording/reproducing apparatus and method wherein the recording unit records one control packet structured in the same format as the program packet as substituted for discarded packet, thereby recording a discarded packet count of the packets discarded between two consecutive program packets (The Examiner notes that the MPEG2-TS claimed by the applicant is a packetized digital bit stream, which can be considered a

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format. The discarded packet count of Sakazaki et al is inherently packetized digital bits as well, satisfying the "same format" limitation. Fig. 2[h] shows the deleted packet count being inserted between stored packets).

Regarding claims 7 and 13, Sakazaki et al disclose a program recording/reproducing apparatus wherein the recording unit records a discarded packet count of the packets discarded between two consecutive program packets at every interval therebetween, thereby recording a discarded packet count of the packets discarded between two consecutive program packets (Fig. 2[h] shows the deleted packet count being inserted between stored packets).

Regarding claim 10, Sakazaki et al disclose a program recording/reproducing apparatus wherein the recording unit records each program packet and the discarded packet count of the packets discarded between the two consecutive program packets on a magnetic tape, a magnetic disk, or an optical disk (Col 4, lines 27-28 "This embodiment is specifically applied to the 6-mm type digital VTR").

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sakazaki et al.

Regarding claim 5, Sakazaki et al disclose a program recording/reproducing apparatus wherein the speed converting unit outputs the coded program signals at the speed detected (Col 3, lines 43-46 "it becomes possible to make a transmission rate at prescribed time intervals of the output data train from the output circuit at a rate based on the rate of the input data train").

Sakazaki et al are silent on the method used for determining the speed of the streaming signals.

The Examiner takes official notice that detecting the speed of an input signal for recording and reproduction purposes by means of time management information is notoriously well known, widely used, and commercially available, citing the Presentation Time Stamps defined in the MPEG-2 specification as that time management information.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Sakazaki et al in order to specify using time management information from the input data stream to determine an output data rate.

7. Claim 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakazaki as applied to claims above, and further in view of Watkinson (MPEG-2, 1999).

Regarding claims 8 and 9, Sakazaki et al disclose a program recording/reproducing apparatus wherein the incoming stream conforms to MPEG specifications, suggesting conformance with such standards, but does not specifically disclose that the recording unit records a stream management packet as a first

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recording packet of the predetermined coded program signal or that an I-frame would be the first frame recorded subsequently to the management data

Watkinson teaches MPEG-2 storing a packet stream wherein a stream management packet is the first recorded packet (Page 224, Figure 6.4 shows a set of PES packets, headed by a pack header which "contains a clock reference code" or management data).

As suggested by Sakazaki et al and taught by Watkinson, a recording of an MPEG stream is headed by management data.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Sakazaki et al in order to specify the first recording packet being a stream management packet.

Watkinson also teaches MPEG-2 groups of pictures as starting with an I frame, allowing P and B frames a reference from which their prediction can function (Page 184, Figure 5.22 shows an MPEG signal consisting of several groups of pictures, allowing interceded P frames to predict from the I frame).

As suggested by Sakazaki et al and taught by Watkinson, I frames are known to be the first frames that can be decoded and therefore would be the first frames of any value to be recorded on a medium.

Therefore, it would have been obvious to modify Sakazaki et al to record an I frame first after management data.

Conclusion

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8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Fletcher whose telephone number is (571) 272-7377. The examiner can normally be reached on 7:45-5:45 M-Th, first Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Groody can be reached on (571) 272-7950. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JAF 6 June 2006

James J. Groody Supervisory Patent Examiner Art Unit 262 2624